Page I of 3 Docket Number: Application Number: 1023-268US01 10/698,050 RMATION DISCLOSURE Applicant: **STATEMENT** Orhan Soykan; Sheila A. Grant; Darcy J. Lichlyter IN AN APPLICATION Group Art Unit: Filing Date: 3736 (Use several sheets if necessary) October 30, 2003 Examiner Name: Unknown U.S. PATENT DOCUMENTS Issue/Document Filing Date If Examiner **Document Number** Name **Publication Date** Appropriate Initial VN 5,756,682 05/26/1998 Wicks et al. Buechler et al. 5,795,725 08/18/1998 Wicks et al. 5,834,220 11/10/1998 5,925,533 07/20/1999 Doth et al. Buechler et al. 09/07/1999 5,947,124 01/16/2001 Buechler et al. 6,174,686 FOREIGN PATENT DOCUMENTS Examiner **Document Number** Publication Country Translation Initial Date WO 00/12028 03/09/2000 **PCT** VΝ OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication) Anderson et al., "Fiber optic immunochemical sensor for continuous, reversible NNmeasurement of phenytoin", Clinical Chemistry, Vol. 34, pp. 1417-1421, 1988. McShane et al., "Glucose Monitoring Using Implanted Fluorescent Microspheres", IEEE-EMBS Magazine, Vol. 19, No. 6, pp. 36-45, 2000. Brauker et al., "Neovascularization of synthetic membranes directed by membrane microarchitecture", J of Biomedical Materials Res, Vol. 29, pp. 1517-1524, 1995. den Braber et al., "Orientation of ECM protein deposition, fibroblast cytoskeleton, and attachment complex components on silicone microgrooved surfaces", J of Biomedical Materials Res, Vol. 40, pp. 291-300, 1998. Grant et al., "Development of dual receptor biosensors: an analysis of FRET pairs," Accepted by Biosensors & Bioelectronics, Oct. 2000. Grant et al., "Investigation of labeling FRET pairs to biomolecules for the development of dual receptor biosensors," SPIE Proceeding: Chemical and Biomedical Sensing, 4036, pp. 143-150, 2000. Braunwald, "Heart Disease," W.B. Saunders, Philadelphia, PA 5th ED. p. 1189, 1997. Haris, "Clinical Chemistry", Williams & Wilkins, Malvern, PA, 4th Ed., pp. 289-298, 1995. **EXAMINER Date Considered** 

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FOREIGN PATENT DOCUMENTS									
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OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)									
Hartmann et al., "Biochemical markers in the diagnosis of coronary artery disease", European Heart J, 19: N2-7, 1998.									
Penttilä et al., "Comparison of the Troponin-T and Troponin-I ELISA tests, as measured									
by Microplate Immunoassay Techniques, in Diagnosing Acute Myocardial Infarction",									
lin Biochem; Vol	l. 35, No. 10, pp. 767-	774, 1997.							
ACC/AHA Guidelines for the Management of Patients with Acute Myocardial Infarction,									
Hogan et al., "Medicare Beneficiaries Costs and Use of Care in the Last Year of Life,"									
Medicare Payment Advisory Committee, Final Report, May 1, 2000, Table 6-3, page 34.									
				97.					
Kröger et al., "Surface investigations on the development of a direct optical									
immunosensor," Biosens Bioelectron, Vol. 13, pp. 1141-1147, 1998.									
Koukkunen et al., "Troponin T and creatinine kinase isoenzyme MB mass in the diagnosis									
of myocardial infarction," Ann. Med., Vol. 30, pp. 488-496, 1998.									
Delves, "Antibody application; essential techniques," John Wiley & Son Ltd., p. 23, 1995.									
Harlow, "Handling Antibodies A Laboratory Manual," Cold Spring Harbor Laboratory Press, p. 85, 1998.									
ation of Fluoresc	ein Isothiocyanate to	Antibodies II. A	reprodu	cible					
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	Date Considered								
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	Applicant: Orhan Soykan; Siling Date: October 30, 2003 Examiner Name: Unknown  U.S. PATEN  Issue/Document Publication Date  FOREIGN PATEN  Publication Date  Gauthors, Title of Interpretation of the Technical mark 19: N2-7, 1998. Imparison of the Technical mark 19: N2-7, 1998. Interpretation before the Mana Disease Technical mark Disease Techn	Applicant: Orhan Soykan; Sheila A. Grant; Darcy Filing Date: October 30, 2003  Examiner Name: Unknown  U.S. PATENT DOCUMENTS  Issue/Document Publication Date  FOREIGN PATENT DOCUMENTS  Publication Date  Gauthors, Title of Item, Page(s), Vol/Issue Markers in the diagnosis of 19: N2-7, 1998.  Imparison of the Troponin-T and Troponinanoassay Techniques, in Diagnosing Actin Biochem; Vol. 35, No. 10, pp. 767-ines for the Management of Patients with 5, 5, pp. 1328-1428, 1996.  Ilicare Beneficiaries Costs and Use of C. Advisory Committee, Final Report, Markers, W.B. Saunders, Philadelphia Disease", W.B. Saunders, Philadelphia Disease", W.B. Saunders, Philadelphia Cosens Bioelectron, Vol. 13, pp. 1141-1 Troponin T and creatinine kinase isoer rection," Ann. Med., Vol. 30, pp. 488-49 application; essential techniques," John Antibodies A Laboratory Manual," Compared to 1/3/04  Whether or not citation is in conformance with MPEP 6	Applicant: Orhan Soykan; Sheila A. Grant; Darcy J. Lichlyter Filing Date: October 30, 2003  Examiner Name: Unknown  U.S. PATENT DOCUMENTS  Issue/Document Publication Date  FOREIGN PATENT DOCUMENTS  Publication Date  Gountry  Gauthors, Title of Item, Page(s), Vol/Issue No., Publisher, Place Siochemical markers in the diagnosis of coronary artery 19: N2-7, 1998.  Imparison of the Troponin-T and Troponin-I ELISA test anionassay Techniques, in Diagnosing Acute Myocardia Clin Biochem; Vol. 35, No. 10, pp. 767-774, 1997.  Inies for the Management of Patients with Acute Myoca 20. 5, pp. 1328-1428, 1996.  Licare Beneficiaries Costs and Use of Care in the Last Y Advisory Committee, Final Report, May 1, 2000, Tabl Disease", W.B. Saunders, Philadelphia, PA, 5th Ed., p. Disease", W.	Applicant: Orhan Soykan; Sheila A. Grant; Darcy J. Lichlyter Filing Date: Ortober 30, 2003  Examiner Name: Unknown  U.S. PATENT DOCUMENTS  Issue/Document Publication Date  FOREIGN PATENT DOCUMENTS  Publication Country Trans Yes  g Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication Date  Trans Siochemical markers in the diagnosis of coronary artery disease? 19: N2-7, 1998.  Imparison of the Troponin-T and Troponin-I ELISA tests, as mean annoassay Techniques, in Diagnosing Acute Myocardial Infarctionaries for the Management of Patients with Acute Myocardial Infarction. S, pp. 1328-1428, 1996.  Icicare Beneficiaries Costs and Use of Care in the Last Year of Linday Advisory Committee, Final Report, May 1, 2000, Table 6-3, pa. Disease, W.B. Saunders, Philadelphia, PA, 5th Ed., p. 1290, 19. Disease, W.B. Saunders, Philadelphia, PA, 5th Ed., p. 1126, 19. face investigations on the development of a direct optical iosens Bioelectron, Vol. 13, pp. 1141-1147, 1998.  Troponin T and creatinine kinase isoenzyme MB mass in the direction, "Ann. Med., Vol. 30, pp. 488-496, 1998.  application; essential techniques," John Wiley & Son Ltd., p. 2: 34 Antibodies A Laboratory Manual," Cold Spring Harbor Labora (pp. Vol. 18, No. 6, pp. 875-881, 1970.  Date Considered  1//3/0/  Publication is in conformance with MPEP 609; Draw line through citation if no orton and citation is in conformance with MPEP 609; Draw line through citation if no orton and citation is in conformance with MPEP 609; Draw line through citation if no orton and citation is in conformance with MPEP 609; Draw line through citation if no orton and citation is in conformance with MPEP 609; Draw line through citation if no orton and citatio					

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<u> </u>	Bhatia et al., "Use	of Thiol-Termina	l Silanes and Heterob	ifunctional Cros	slinkers f	or			
VN.									
1	Lichlyter et al., "FRET Based Sesors Using Antibodies for the Detection of Early Markers of Infarction," Michigan Technological University, 2001.								
Grant et al., "Investigation of a FRET Immunosensor Technique for the Detection of Troponin T and I," Sensor Letters, 2003.									
Lichlyter et al., "Development of a novel FRET immunosensor technique," Biosensors									
and Bioelectronics 19, pp. 219-226, 2003.									
Ko et al., "Development of a novel FRET method for detection of Listeria or Salmonella," Sensors and Actuators B 96, pp. 372-378, 2003.									
Pierce et al., "Development of a FRET based fiber-optic biosensor for early detection of									
myocardial infarction," Missour Lifesciences Week 2004, University of Missouri –									
Columbia, MO, April 5-9, 2004.									
Mary Pierce, Darcy Lichlyter and Sheila Grant. Engineering a biosensor to detect cardiac									
	Troponin I. Biomedical Engineering Society, Nashville, TN, October 1-4, 2003.								
Mary Pierce, Darcy Lichlyter, and Sheila Grant, Investigation of a FRET Based Sensor									
Technique for the Detection of Human cardiac Troponin T and Troponin I. Missouri									
Lifescences Week 2003, University of Missouri - Columbia, MO, March 3-7, 2003.									
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